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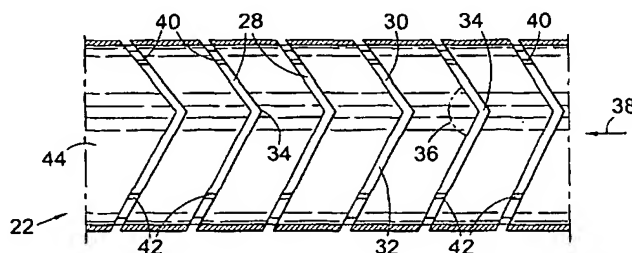
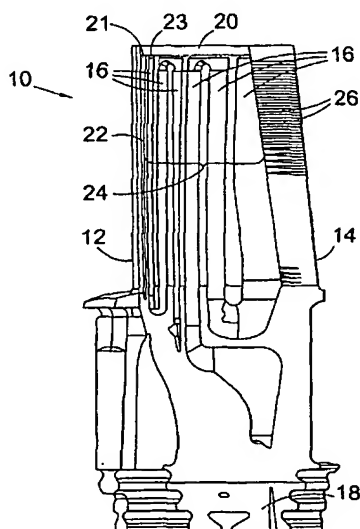
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(54) Title: TURBINE BLADE TURBULATOR COOLING DESIGN



(57) Abstract: A turbine blade (10) includes internal channels (16) which provide a flow passage for a cooling medium to assist in cooling the blade (10) when in use, wherein the channels (16) include a plurality of turbulence promoting ribs (28, 60, 64, 70) mounted on the wall surfaces (44, 62, 66, 72) thereof. Each rib (28, 60, 64, 70) comprises two rib portions (30, 32) joined at one end to form a chevron junction (34), wherein the chevron junction (34) defines an angle (36) of between 80° and 120° and is directed into the flow of the cooling medium through the channels (16). Each rib portion (30, 32) of a rib (28, 60, 64, 70) defines a gap (40, 42) therein.

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